



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS830LEDHTLOWT5022ACT120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2018.0.0 see: www.ltioptics.com/ies
 [ISSUE DATE]
 [TEST DATE] Wed Jul 18 17:39:24 2018
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BS830LEDLOWT5022ACT120-277[_P
 [LAMP] LED 0.195W White 5630 package (65mA)
 [LAMPCAT] SPMWHT541MD-3900K
 IESNA:LM-63-2002
 [TEST] 6,552
 [TESTLAB] CSA Group
 [ISSUE DATE] 7/24/2013 1:09:24 PM
 [MANUFAC] Beghelli
 [OTHER] Luminous shape: Rectangle
 [OTHER] Luminous dimensions (feet)
 [OTHER] 0 - 180 Axis: 4.2
 [OTHER] 90 - 270 Axis: 0.6
 [OTHER] Height: 0.1

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 14048 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 134 |
| Total Luminaire Watts | 105 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.16 |
| Spacing Criterion (90-270) | 1.16 |
| Spacing Criterion (Diagonal) | 1.26 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.87 ft |
| Luminous Width (90-270) | 1.88 ft |
| Luminous Height | 1.59 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8124 | 6827 | 8124 |
| 55 | 5010 | 4085 | 5011 |
| 65 | 2774 | 2190 | 2775 |
| 75 | 1619 | 1231 | 1619 |
| 85 | 376 | 273 | 376 |

CANDELA TABULATION

| | <u>0</u> |
|-----|----------|
| 0 | 6448.755 |
| 5 | 6406.730 |
| 10 | 6342.285 |
| 15 | 6203.568 |
| 20 | 5876.169 |
| 25 | 5386.281 |
| 30 | 4895.545 |
| 35 | 4405.506 |
| 40 | 3953.939 |
| 45 | 3468.603 |
| 50 | 2811.850 |
| 55 | 2076.043 |
| 60 | 1436.543 |
| 65 | 1079.526 |
| 70 | 825.040 |
| 75 | 569.948 |
| 80 | 312.984 |
| 85 | 114.374 |
| 90 | 29.879 |
| 95 | 11.298 |
| 100 | 9.450 |
| 105 | 10.374 |
| 110 | 8.341 |
| 115 | 9.752 |
| 120 | 13.994 |
| 125 | 17.380 |
| 130 | 18.396 |
| 135 | 16.615 |
| 140 | 13.205 |
| 145 | 11.768 |
| 150 | 11.567 |
| 155 | 11.416 |
| 160 | 11.407 |
| 165 | 12.986 |
| 170 | 14.322 |
| 175 | 14.423 |
| 180 | 20.118 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2349.51 | N.A. | 16.70 |
| 0-30 | 4831.9 | N.A. | 34.40 |
| 0-40 | 7596.26 | N.A. | 54.10 |
| 0-60 | 12114.38 | N.A. | 86.20 |
| 0-80 | 13809.16 | N.A. | 98.30 |
| 0-90 | 13964.78 | N.A. | 99.40 |
| 10-90 | 13355.03 | N.A. | 95.10 |
| 20-40 | 5246.75 | N.A. | 37.30 |
| 20-50 | 7890.15 | N.A. | 56.20 |
| 40-70 | 5612.03 | N.A. | 39.90 |
| 60-80 | 1694.79 | N.A. | 12.10 |
| 70-80 | 600.88 | N.A. | 4.30 |
| 80-90 | 155.62 | N.A. | 1.10 |
| 90-110 | 27.11 | N.A. | 0.20 |
| 90-120 | 37.46 | N.A. | 0.30 |
| 90-130 | 52.49 | N.A. | 0.40 |
| 90-150 | 72.69 | N.A. | 0.50 |
| 90-180 | 83.07 | N.A. | 0.60 |
| 110-180 | 55.96 | N.A. | 0.40 |
| 0-180 | 14047.85 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 609.76 |
| 10-20 | 1739.75 |
| 20-30 | 2482.4 |
| 30-40 | 2764.36 |
| 40-50 | 2643.4 |
| 50-60 | 1874.72 |
| 60-70 | 1093.91 |
| 70-80 | 600.88 |
| 80-90 | 155.62 |
| 90-100 | 16.91 |
| 100-110 | 10.20 |
| 110-120 | 10.35 |
| 120-130 | 15.03 |
| 130-140 | 12.60 |
| 140-150 | 7.60 |
| 150-160 | 5.30 |
| 160-170 | 3.63 |
| 170-180 | 1.44 |

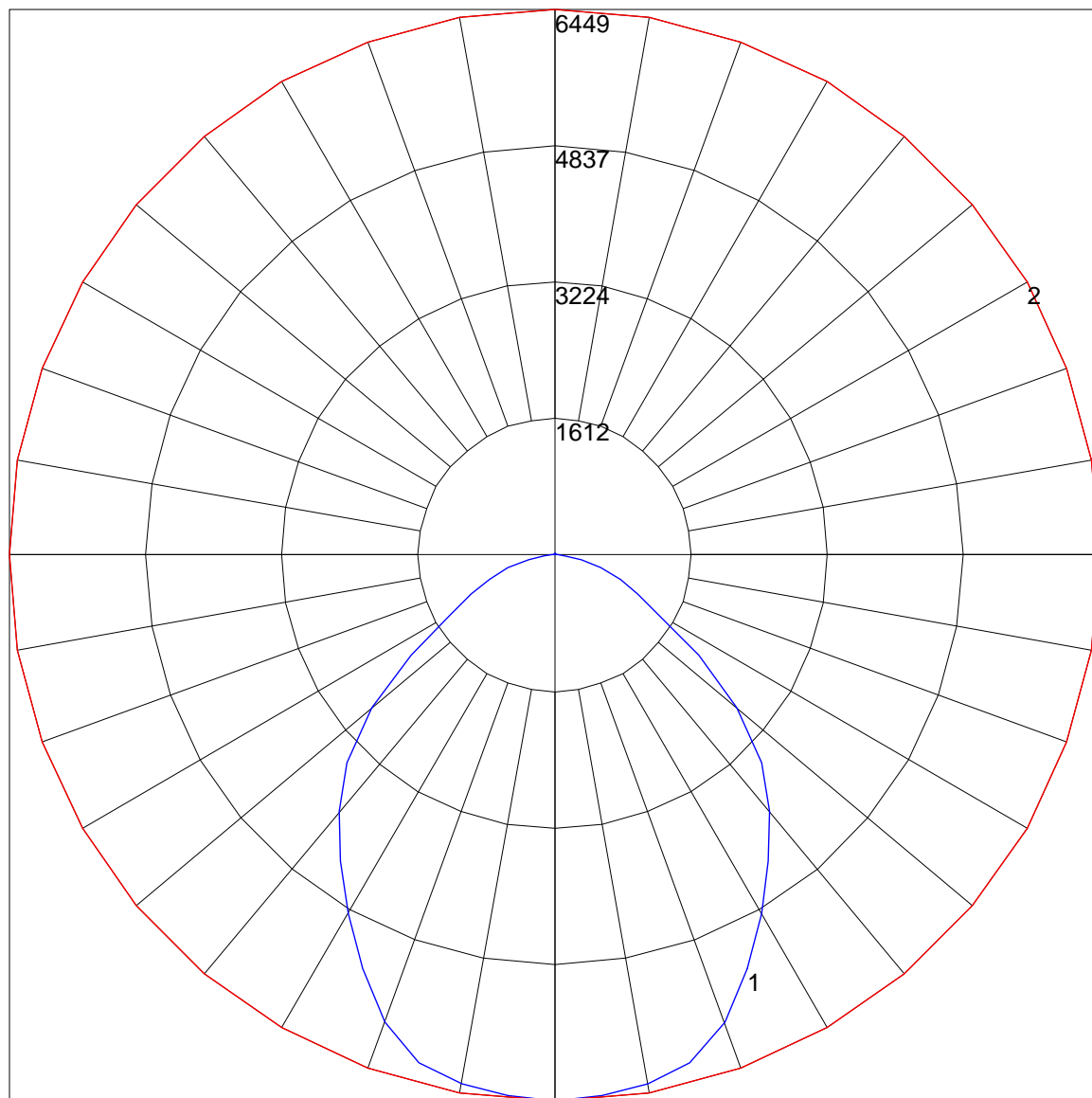
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |
| 1 | 110 | 106 | 102 | 99 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 86 | 82 | 88 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 60 | 71 | 65 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 56 |
| 5 | 79 | 68 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 58 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 51 | 43 | 38 | 63 | 51 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 37 | 47 | 41 | 37 | 35 |
| 9 | 60 | 47 | 40 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 |

POLAR GRAPH



Maximum Candela = 6448.755 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)